104TH CONGRESS 2D SESSION

## H.R.3198

## IN THE SENATE OF THE UNITED STATES

July 31, 1996

Received; read twice and referred to the Committee on Energy and Natural Resources

## AN ACT

To reauthorize and amend the National Geologic Mapping Act of 1992, and for other purposes.

- 1 Be it enacted by the Senate and House of Representa-
- 2 tives of the United States of America in Congress assembled,

## 1 SECTION 1. SHORT TITLE.

| 2  | This Act may be cited as the "National Geologic |
|----|---|
| 3  | Mapping Reauthorization Act of 1996".           |
| 4  | SEC. 2. FINDINGS.                               |
| 5  | Congress finds that—                            |
| 6  | (1) in enacting the National Geologic Mapping   |
| 7  | Act of 1992 (43 U.S.C. 31a et seq.), Congress   |
| 8  | found, among other things, that—                |
| 9  | (A) during the 2 decades preceding enact-       |
| 10 | ment of that Act, the production of geologic    |
| 11 | maps had been drastically curtailed;            |
| 12 | (B) geologic maps are the primary data          |
| 13 | base for virtually all applied and basic earth- |
| 14 | science investigations;                         |
| 15 | (C) Federal agencies, State and local gov-      |
| 16 | ernments, private industry, and the general     |
| 17 | public depend on the information provided by    |
| 18 | geologic maps to determine the extent of poten- |
| 19 | tial environmental damage before embarking on   |
| 20 | projects that could lead to preventable, costly |
| 21 | environmental problems or litigation;           |
| 22 | (D) the lack of proper geologic maps has        |
| 23 | led to the poor design of such structures as    |
| 24 | dams and waste-disposal facilities;             |

| 1  | (E) geologic maps have proven indispen-               |  |  |  |
|----|---|--|--|--|
| 2  | sable in the search for needed fossil fuel and        |  |  |  |
| 3  | mineral resources; and                                |  |  |  |
| 4  | (F) a comprehensive nationwide program                |  |  |  |
| 5  | of geologic mapping is required in order to sys-      |  |  |  |
| 6  | tematically build the Nation's geologic-map           |  |  |  |
| 7  | data base at a pace that responds to increasing       |  |  |  |
| 8  | demand;   |  |  |  |
| 9  | (2) the geologic mapping program called for by        |  |  |  |
| 10 | that Act has not been fully implemented; and          |  |  |  |
| 11 | (3) it is time for this important program to be       |  |  |  |
| 12 | fully implemented.                                    |  |  |  |
| 13 | SEC. 3. REAUTHORIZATION AND AMENDMENT.                |  |  |  |
| 14 | (a) Definitions.—Section 3 of the National Geo-       |  |  |  |
| 15 | logic Mapping Act of 1992 (43 U.S.C. 31b) is amended— |  |  |  |
| 16 | (1) by striking "As used in this Act:" and in-        |  |  |  |
| 17 | serting "In this Act:";                               |  |  |  |
| 18 | (2) by redesignating paragraphs (2), (3), (4),        |  |  |  |
| 19 | and (5) as paragraphs (3), (4), (5), and (6), respec- |  |  |  |
| 20 | tively;   |  |  |  |
| 21 | (3) by inserting after paragraph (1) the follow-      |  |  |  |
| 22 | ing:  |  |  |  |
| 23 | "(2) Association.—The term 'Association'              |  |  |  |
| 24 | means the Association of American State Geolo-        |  |  |  |
| 25 | gists."; and  |  |  |  |

| 1  | (4) in each paragraph that does not have a            |
|----|---|
| 2  | heading, by inserting a heading, in the same style as |
| 3  | the heading in paragraph (2), as added by para-       |
| 4  | graph (3), the text of which is comprised of the term |
| 5  | defined in the paragraph.                             |
| 6  | (b) Geologic Mapping Program.—Section 4 of the        |
| 7  | National Geologic Mapping Act of 1992 (43 U.S.C. 31c) |
| 8  | is amended—   |
| 9  | (1) by striking subsection (a) and inserting the      |
| 10 | following:  |
| 11 | "(a) Establishment.—                                  |
| 12 | "(1) In general.—There is established a na-           |
| 13 | tional cooperative geologic mapping program be-       |
| 14 | tween the United States Geological Survey and the     |
| 15 | State geological surveys, acting through the Associa- |
| 16 | tion.   |
| 17 | "(2) Design, Development, and Adminis-                |
| 18 | TRATION.—The cooperative geologic mapping pro-        |
| 19 | gram shall be—  |
| 20 | "(A) designed and administered to achieve             |
| 21 | the objectives set forth in subsection (c);           |
| 22 | "(B) developed in consultation with the ad-           |
| 23 | visory committee; and                                 |
| 24 | "(C) administered through the Survey.";               |
| 25 | (2) in subsection (b)—                                |

| 1  | (A) in the subsection heading by striking |
|----|---|
| 2  | "USGS" and inserting "THE SURVEY";        |
| 3  | (B) in paragraph (1)—                     |
| 4  | (i) by single-indenting the paragraphs,   |
| 5  | double-indenting the subparagraphs, and   |
| 6  | triple indenting the clauses;             |
| 7  | (ii) by inserting "Lead agency.—"         |
| 8  | before "The Survey";                      |
| 9  | (iii) in subparagraph (A)—                |
| 10 | (I) by striking "Committee on             |
| 11 | Natural Resources" and inserting          |
| 12 | "Committee on Resources"; and             |
| 13 | (II) by striking "date of enact-          |
| 14 | ment of this Act" and inserting "date     |
| 15 | of enactment of the National Geologic     |
| 16 | Mapping Reauthorization Act of            |
| 17 | 1996'';                                   |
| 18 | (iv) in subparagraph (B)—                 |
| 19 | (I) by striking "State geological         |
| 20 | surveys" and inserting "Association";     |
| 21 | and                                       |
| 22 | (II) by striking "date of enact-          |
| 23 | ment of this Act" and inserting "date     |
| 24 | of enactment of the National Geologic     |

| 1  | Mapping Reauthorization Act of           |
|----|--|
| 2  | 1996"; and                               |
| 3  | (v) in subparagraph (C)—                 |
| 4  | (I) by striking "date of enact-          |
| 5  | ment of this Act" and inserting "date    |
| 6  | of enactment of the National Geologic    |
| 7  | Mapping Reauthorization Act of           |
| 8  | 1996";                                   |
| 9  | (II) by striking "Committee on           |
| 10 | Natural Resources" and inserting         |
| 11 | "Committee on Resources";                |
| 12 | (III) in clauses (i) and (ii) by in-     |
| 13 | serting "and the Association" after      |
| 14 | "the Survey";                            |
| 15 | (IV) by adding "and" at the end          |
| 16 | of clause (ii); and                      |
| 17 | (V) by striking "; and" at the           |
| 18 | end of clause (iii) and all that follows |
| 19 | through the end of the subparagraph      |
| 20 | and inserting a period; and              |
| 21 | (C) in paragraph (2)—                    |
| 22 | (i) by inserting "Responsibilities       |
| 23 | OF THE SECRETARY.—" before "In addi-     |
| 24 | tion to"; and                            |

| 1  | (ii) in subparagraph (A) by striking           |
|----|--|
| 2  | "State geological surveys" and inserting       |
| 3  | "Association";                                 |
| 4  | (3) in subsection (c)—                         |
| 5  | (A) in paragraph (2) by striking "interpre-    |
| 6  | tive" and inserting "interpretative"; and      |
| 7  | (B) in paragraph (4) by striking "aware-       |
| 8  | ness for" and inserting "awareness of"; and    |
| 9  | (4) in subsection (d)—                         |
| 10 | (A) in paragraph (1) by inserting "Fed-        |
| 11 | ERAL COMPONENT.—" before "A Federal";          |
| 12 | (B) in paragraph (2)—                          |
| 13 | (i) by inserting "Support compo-               |
| 14 | NENT.—" before "A geologic"; and               |
| 15 | (ii) by striking subparagraph (D) and          |
| 16 | inserting the following:                       |
| 17 | "(D) geochronologic and isotopic investiga-    |
| 18 | tions that—                                    |
| 19 | "(i) provide radiometric age dates for         |
| 20 | geologic-map units; and                        |
| 21 | "(ii) fingerprint the geothermometry,          |
| 22 | geobarometry, and alteration history of        |
| 23 | geologic-map units,                            |
| 24 | which investigations shall be contributed to a |
| 25 | national geochronologic data base;";           |

| 1  | (C) in paragraph (3) by inserting "STATE               |  |
|----|--|--|
| 2  | COMPONENT.—" before "A State"; and                     |  |
| 3  | (D) by striking paragraph (4) and insert-              |  |
| 4  | ing the following:                                     |  |
| 5  | "(4) Education component.—A geologic                   |  |
| 6  | mapping education component—                           |  |
| 7  | "(A) the objectives of which shall be—                 |  |
| 8  | "(i) to develop the academic programs                  |  |
| 9  | that teach earth-science students the fun-             |  |
| 10 | damental principles of geologic mapping                |  |
| 11 | and field analysis; and                                |  |
| 12 | "(ii) to provide for broad education in                |  |
| 13 | geologic mapping and field analysis                    |  |
| 14 | through support of field studies;                      |  |
| 15 | "(B) investigations under which shall be               |  |
| 16 | integrated with the other mapping components           |  |
| 17 | of the geologic mapping program and shall re-          |  |
| 18 | spond to priorities identified for those compo         |  |
| 19 | nents; and   |  |
| 20 | "(C) Federal funding for which shall be                |  |
| 21 | matched by non-Federal sources on a 1-to-1             |  |
| 22 | basis.".   |  |
| 23 | (c) Advisory Committee.—Section 5 of the Na-           |  |
| 24 | tional Geologic Mapping Act of 1992 (43 U.S.C. 31d) is |  |
| 25 | amended—   |  |

| 1  | (1) by striking subsection (a) and inserting the       |  |  |
|----|--|--|--|
| 2  | following:   |  |  |
| 3  | "(a) Establishment.—                                   |  |  |
| 4  | "(1) In general.—There shall be established            |  |  |
| 5  | a 10-member geologic mapping advisory committee        |  |  |
| 6  | to advise the Director on planning and implementa-     |  |  |
| 7  | tion of the geologic mapping program.                  |  |  |
| 8  | "(2) Members ex officio.—Federal agency                |  |  |
| 9  | members shall include the Administrator of the En-     |  |  |
| 10 | vironmental Protection Agency or a designee, the       |  |  |
| 11 | Secretary of Energy or a designee, the Secretary of    |  |  |
| 12 | Agriculture or a designee, and the Assistant to the    |  |  |
| 13 | President for Science and Technology or a designee     |  |  |
| 14 | "(3) Appointed members.—Not later than 90              |  |  |
| 15 | days after the date of enactment of the National       |  |  |
| 16 | Geologic Mapping Reauthorization Act of 1996, in       |  |  |
| 17 | consultation with the Association, the Secretary shall |  |  |
| 18 | appoint to the advisory committee 2 representatives    |  |  |
| 19 | from the Survey (including the Chief Geologist, as     |  |  |
| 20 | Chairman), 2 representatives from the State geologi-   |  |  |
| 21 | cal surveys, 1 representative from academia, and 1     |  |  |
| 22 | representative from the private sector."; and          |  |  |
| 23 | (2) in subsection (b)(3) by striking "and State"       |  |  |
| 24 | and inserting ", State, and university".               |  |  |

| 1  | (d) Geologic Mapping Program Implementation          |  |  |
|----|--|--|--|
| 2  | Plan.—Section 6 of the National Geologic Mapping Ac  |  |  |
| 3  | of 1992 (43 U.S.C. 31e) is amended—                  |  |  |
| 4  | (1) in paragraph (1) by inserting "cooperative"      |  |  |
| 5  | after "national";                                    |  |  |
| 6  | (2) by striking paragraph (3)(C) and inserting       |  |  |
| 7  | the following:                                       |  |  |
| 8  | "(C) for the State geologic mapping com-             |  |  |
| 9  | ponent, a priority-setting mechanism that re-        |  |  |
| 10 | sponds to—   |  |  |
| 11 | "(i) specific intrastate needs for geo-              |  |  |
| 12 | logic-map information; and                           |  |  |
| 13 | "(ii) interstate needs shared by adja-               |  |  |
| 14 | cent entities that have common require-              |  |  |
| 15 | ments; and";   |  |  |
| 16 | (3) by striking paragraphs (4) and (5) and in-       |  |  |
| 17 | serting the following:                               |  |  |
| 18 | "(4) a mechanism for adopting scientific and         |  |  |
| 19 | technical mapping standards for preparing and pub-   |  |  |
| 20 | lishing general-purpose and special-purpose geologic |  |  |
| 21 | maps to—   |  |  |
| 22 | "(A) ensure uniformity of cartographic and           |  |  |
| 23 | scientific conventions; and                          |  |  |

| 1  | "(B) provide a basis for judgment as to                   |  |  |  |
|----|---|--|--|--|
| 2  | the comparability and quality of map products;            |  |  |  |
| 3  | and"; and   |  |  |  |
| 4  | (4) by redesignating paragraph (6) as para-               |  |  |  |
| 5  | graph (5).  |  |  |  |
| 6  | (e) National Geologic-Map Data Base.—Section              |  |  |  |
| 7  | 7 of the National Geologic Mapping Act of 1992 (43        |  |  |  |
| 8  | U.S.C. 31f) is amended by striking subsection (b) and in- |  |  |  |
| 9  | serting the following:                                    |  |  |  |
| 10 | "(b) Standardization.—                                    |  |  |  |
| 11 | "(1) In general.—Geologic maps contributed                |  |  |  |
| 12 | to the national archives shall have format, symbols,      |  |  |  |
| 13 | and technical attributes that adhere to standards so      |  |  |  |
| 14 | that archival information can be accessed, ex-            |  |  |  |
| 15 | changed, and compared efficiently and accurately, as      |  |  |  |
| 16 | required by Executive Order 12906 (59 Fed. Reg.           |  |  |  |
| 17 | 17,671 (1994)), which established the National Spa-       |  |  |  |
| 18 | tial Data Infrastructure.                                 |  |  |  |
| 19 | "(2) Development of Standards.—Entities                   |  |  |  |
| 20 | that contribute geologic maps to the national ar-         |  |  |  |
| 21 | chives shall develop the standards described in para-     |  |  |  |
| 22 | graph (1) in cooperation with the Federal Geo-            |  |  |  |
| 23 | graphic Data Committee, which is charged with             |  |  |  |
| 24 | standards development and other data coordination         |  |  |  |

1 activities as described in Office of Management and 2 Budget revised Circular A-16.". 3 (f) Annual Report.—Section 8 of the National Geologic Mapping Act of 1992 (43 U.S.C. 31g) is amend-5 ed in the first sentence— 6 (1) by striking "Committee on Natural Resources" and inserting "Committee on Resources"; 7 8 and 9 (2) by striking "program, and describing and evaluating progress" and inserting "program and 10 11 describing and evaluating the progress". 12 (g) AUTHORIZATION OF APPROPRIATIONS.—Section 9 of the National Geologic Mapping Act of 1992 (43 U.S.C. 31h) is amended to read as follows: 14 "SEC. 9. AUTHORIZATION OF APPROPRIATIONS. 15 16 "(a) In General.—There are authorized to be appropriated to carry out the national cooperative geologic 17 18 mapping program under this Act— 19 "(1) \$24,000,000 for fiscal year 1997; 20 "(2) \$26,000,000 for fiscal year 1998; 21 "(3) \$28,000,000 for fiscal year 1999; and 22 "(4) \$30,000,000 for fiscal year 2000. "(b) Allocation of Appropriated Funds.— 23

"(1) IN GENERAL.—Of the amount of funds

that are appropriated under subsection (a) for any

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| 1  | fiscal year up to the amount that is equal to the     |
|----|---|
| 2  | amount appropriated to carry out the national coop-   |
| 3  | erative geologic mapping program for fiscal year      |
| 4  | 1996—   |
| 5  | "(A) not less than 20 percent shall be allo-          |
| 6  | cated to State mapping activities; and                |
| 7  | "(B) not less than 2 percent shall be allo-           |
| 8  | cated to educational mapping activities.              |
| 9  | "(2) Increased appropriations.—Of the                 |
| 10 | amount of funds that are appropriated under sub-      |
| 11 | section (a) for any fiscal year up to the amount that |
| 12 | exceeds the amount appropriated to carry out the      |
| 13 | national cooperative geologic mapping program for     |
| 14 | fiscal year 1996—                                     |
| 15 | "(A) for fiscal year 1997—                            |
| 16 | "(i) 76 percent shall be allocated for                |
| 17 | Federal mapping and support mapping ac-               |
| 18 | tivities;   |
| 19 | "(ii) 22 percent shall be allocated for               |
| 20 | State mapping activities; and                         |
| 21 | "(iii) 2 percent shall be allocated for               |
| 22 | educational mapping activities;                       |
| 23 | "(B) for fiscal year 1998—                            |

| 1  |           | "(i) 75 percent shall be allocated for     |
|----|-----------|--|
| 2  |           | Federal mapping and support mapping ac-    |
| 3  |           | tivities;                                  |
| 4  |           | "(ii) 23 percent shall be allocated for    |
| 5  |           | State mapping activities; and              |
| 6  |           | "(iii) 2 percent shall be allocated for    |
| 7  |           | educational mapping activities;            |
| 8  |           | "(C) for fiscal year 1999—                 |
| 9  |           | "(i) 74 percent shall be allocated for     |
| 10 |           | Federal mapping and support mapping ac-    |
| 11 |           | tivities;                                  |
| 12 |           | "(ii) 24 percent shall be allocated for    |
| 13 |           | State mapping activities; and              |
| 14 |           | "(iii) 2 percent shall be allocated for    |
| 15 |           | educational mapping activities; and        |
| 16 |           | "(D) for fiscal year 2000—                 |
| 17 |           | "(i) 73 percent shall be allocated for     |
| 18 |           | Federal mapping and support mapping ac-    |
| 19 |           | tivities;                                  |
| 20 |           | "(ii) 25 percent shall be allocated for    |
| 21 |           | State mapping activities; and              |
| 22 |           | "(iii) 2 percent shall be allocated for    |
| 23 |           | educational mapping activities.".          |
|    | Passed th | ne House of Representatives July 30, 1996. |
|    | Attest:   | ROBIN H. CARLE,                            |
|    |           | Clerk.                                     |